

We claim:

1. An oral dosage form with delayed release of active ingredient  
5 and high mechanical stability, comprising
  - a) one or more active ingredients
  - b) a formulated mixture of polyvinyl acetate and  
10 polyvinylpyrrolidone
  - c) water-soluble polymers or low or high molecular weight lipophilic additives
  - 15 d) and other conventional excipients.
2. An oral dosage form as claimed in claim 1, wherein the ratio  
of polyvinyl acetate to polyvinylpyrrolidone is from 6:4 to  
20 9:1.
3. An oral dosage form as claimed in either of claims 1 or 2,  
wherein a formulated mixture of polyvinyl acetate and  
polyvinylpyrrolidone in the ratio 8:2 is employed.
- 25 4. An oral dosage form as claimed in any of claims 1 to 3, which  
is a tablet, extrudate, pellet or granulate.
5. An oral dosage form as claimed in any of claims 1 to 4,  
wherein a water-soluble or water-insoluble release-delaying  
30 coating is applied to the oral dosage form.
6. An oral dosage form as claimed in any of claims 1 to 5,  
wherein the water-soluble or lipophilic polymers are selected  
from the group of: polyvinyl alcohols, polyethylene glycols,  
35 polyoxyethylene/polyoxypropylene block copolymers,  
polyvinylpyrrolidones and derivatives, vinyl  
acetate/vinylpyrrolidone copolymers, preferably polyethylene  
glycols, polyvinylpyrrolidones, vinyl  
acetate/vinylpyrrolidone copolymers or maltodextrins, and  
40 salts thereof.
7. An oral dosage form as claimed in any of claims 1 to 6,  
wherein the water-soluble swelling polymers are selected from  
the group of: alginates, pectins, galactomannans,  
45 carrageenans, dextran, curdlan, pullulan, gellan, chitin,  
gelatin, xanthans, hemicelluloses, cellulose derivatives such  
as methylcellulose, hydroxypropylmethylcellulose,

- hydroxypropylcellulose, hydroxyethylcellulose,  
methylhydroxyethylcellulose, carboxymethylcellulose, starch  
derivatives such as carboxymethyl starch, degraded starch,  
polyacrylic acid, polymethacrylic acid, acrylic  
acid/methacrylic acid copolymers, and salts thereof.
8. An oral dosage form as claimed in any of claims 1 to 6,  
wherein the lipophilic additives are selected from the group  
of: cellulose derivatives such as ethylcellulose, cellulose  
acetate, cellulose acetate phthalate, cellulose acetate  
succinate, hydroxypropylmethylcellulose acetate phthalate,  
hydroxypropylmethylcellulose acetate succinate, acrylic  
ester/methacrylic ester copolymers, in particular methyl  
methacrylate/ethyl acrylate copolymers, ammoniomethacrylate  
copolymer type A and type B, methacrylic acid/acrylic ester  
copolymers, in particular methacrylic acid/ethyl acrylate  
copolymers, fatty alcohols such as stearyl alcohol, fatty  
acids such as stearic acid, fatty acid esters and fatty  
alcohol esters, glycerides, waxes, lecithin.
9. An oral dosage form as claimed in any of claims 1 to 7, which  
is produced by direct compression, extrusion, melt extrusion,  
pelleting, compaction, wet granulation.
10. An oral dosage form as claimed in any of claims 1 to 8,  
wherein binders, extenders/fillers, disintegrants,  
lubricants, flow regulators, dyes, stabilizers such as  
antioxidants, wetting agents, preservatives, release agents,  
flavorings and sweeteners are employed as conventional  
excipients.
11. An oral dosage form as claimed in any of claims 1 to 9,  
wherein the formulated mixture of polyvinyl acetate and  
polyvinylpyrrolidone is present in a proportion of from 10 to  
80% based on the total weight of the tablet.
12. An oral dosage form as claimed in any of claims 1 to 10,  
wherein the water-soluble polymers and/or the lipophilic  
additives are present in a proportion of from 1 to 40% based  
on the total weight of the tablet.
13. An oral dosage form as claimed in any of claims 1 to 11,  
wherein hydroxypropylmethylcelluloses are employed as  
water-soluble polymers.

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14. An oral dosage form as claimed in any of claims 1 to 12,  
wherein polyvinylpyrrolidones or vinyl  
acetate/vinylpyrrolidone copolymers are employed as  
water-soluble polymers.
- 5 15. An oral dosage form as claimed in any of claims 1 to 14,  
which is a press-coated tablet whose core is rich in active  
ingredient.
- 10 16. An oral dosage form as claimed in any of claims 1 to 15,  
which comprises as active ingredients food supplements or  
additives, vitamins, minerals or trace elements or active  
pharmaceutical ingredients.
- 15 17. An oral dosage form as claimed in any of claims 1 to 16,  
which comprises active pharmaceutical ingredients as active  
ingredients.
- 20 18. A dosage form as claimed in any of claims 1 to 17, wherein  
the active pharmaceutical ingredient is selected from the  
group of benzodiazepines, antihypertensives, vitamins,  
cytostatics, anesthetics, neuroleptics, antidepressants,  
antibiotics, antimycotics, fungicides, chemotherapeutics,  
urologicals, platelet aggregation inhibitors, sulfonamides,  
25 spasmolytics, hormones, immunoglobulins, sera, thyroid  
therapeutics, psychopharmaceuticals, antiparkinson agents and  
other antihyperkinetics, ophthalmologicals, neuropathy  
products, calcium metabolism regulators, muscle relaxants,  
lipid-lowering agents, liver therapeutics, coronary agents,  
30 cardiac agents, immunotherapeutics, regulatory peptides and  
their inhibitors, hypnotics, sedatives, gynecologicals,  
antigout agents, fibrinolytics, enzyme products and transport  
proteins, enzyme inhibitors, emetics, perfusion promoters,  
diuretics, diagnostics, corticoids, cholinergics, biliary  
35 therapeutics, antiasthmatics, bronchospasmolytics,  
beta-receptor blockers, calcium channel blockers, ACE  
inhibitors, arteriosclerosis remedies, antiinflammatory  
agents, anticoagulants, antihypotensives, antihypoglycemics,  
antifibrinolytics, antiepileptics, antiemetics, antidotes,  
40 antidiabetics, antiarrhythmics, antianemics, antiallergics,  
anthelmintics, analgesics, analeptics, aldosterone  
antagonists, weight-reducing agents.
19. A drug for delayed release of active ingredient, which is an  
45 oral dosage form as claimed in any of claims 1 to 18.

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20. The use of the oral dosage forms as claimed in any of claims 1 to 17 for producing drugs with delayed release of active ingredient.

5 21. The use of the oral dosage forms as claimed in any of claims 1 to 17 for delayed release of active ingredients which are food supplements or additives, vitamins, minerals or trace elements.

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